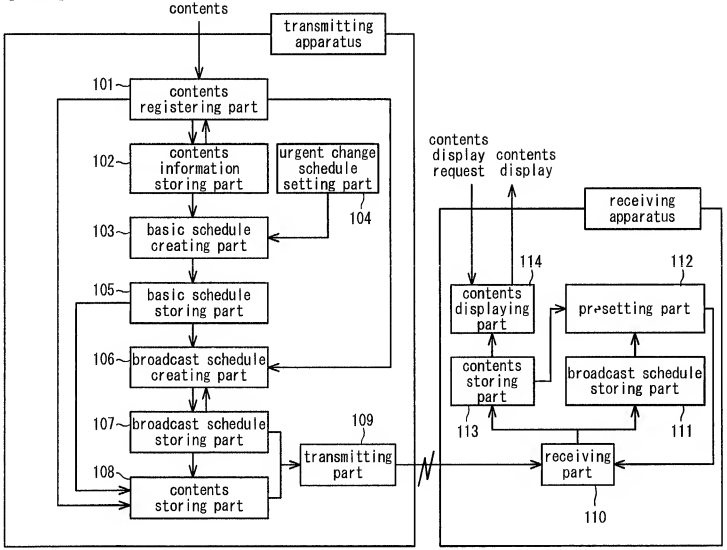
JP 2001-298618 A 2001.10.26

FIG. 1



2008TED"8T986001

FIG. 2

contents information

Content_ID	contents attributes			
	billing	update frequency	size(MB)	area
1	no	once a day	500	all the country
2	Gold	once a day	4000	Hokkaido
3	Silver	once a week	1500	Tokai
4	Bronze	once a week	1000	Kyushu
5	Silver	once a day	2000	Kanto
6	Gold	once a day	1000	Hokkaido
7	no	once a day	1000	all the country
700	no	force start	1000	all the country

201

201

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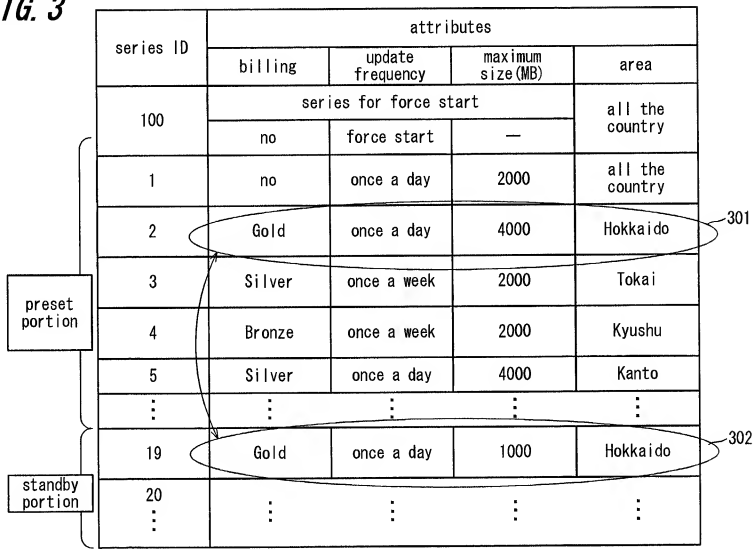
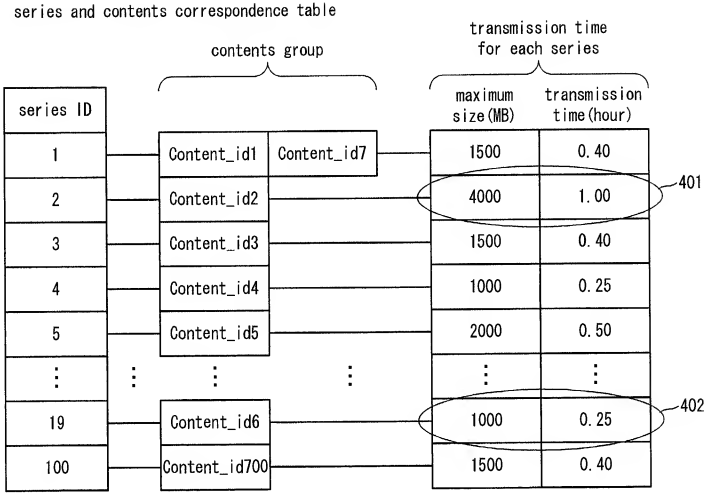
FIG. 3



JP 2009-218602 A

FIG. 4



2087E0 "8T986001

FIG. 5

basic schedule

24H

same attributes

redundant portion

series_ID	attributes			
	billing	update frequency	transmission time (hour)	area
100	no	force start	0.40	all the country
1	no	once a day	0.40	all the country
2	Gold	once a day	1.00	Hokkaido
19	Gold	once a day	0.25	Hokkaido
3	Silver	once a week	0.40	Tokai
4	Bronze	once a week	0.25	Kyushu
5	Silver	once a day	0.50	Kanto
100	no	force start	0.40	all the country
⋮	⋮	⋮	⋮	⋮
100	no	force start	0.40	all the country
1	no	once a day	0.40	all the country
2	Gold	once a day	1.00	Hokkaido
19	Gold	once a day	0.25	Hokkaido

501

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FIG. 6

broadcast schedule (3/13/2001)

broadcast time	series_ID	attributes			episode_ number
		billing	actual size(MB)	area	
0:00~0:24	100	no	1500	all the country	13
0:24~0:48	1	no	1500	all the country	5
0:48~1:48	2	Gold	4000	Hokkaido	5
1:48~2:03	19	Gold	1000	Hokkaido	5
2:03~2:27	3	Silver	1500	Tokai	4
2:27~2:42	4	Bronze	1000	Kyushu	3
2:42~3:12	5	Silver	2000	Kanto	5
3:12~3:36	100	no	1500	all the country	14
⋮	⋮	⋮	⋮	⋮	⋮
21:57~22:21	100	no	1500	all the country	20
22:21~22:45	1	no	1500	all the country	5
22:45~23:45	2	Gold	4000	Hokkaido	5
23:45~24:00	19	Gold	1000	Hokkaido	5

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FIG. 7

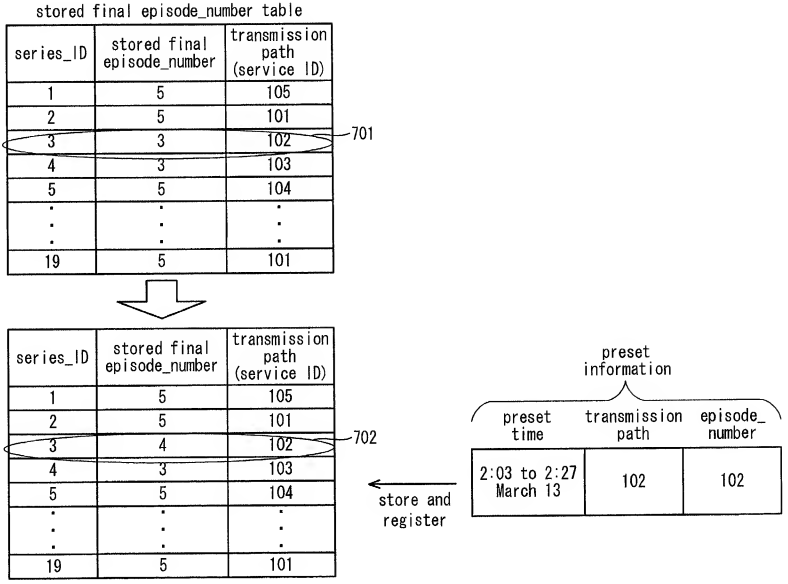

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FIG. 8

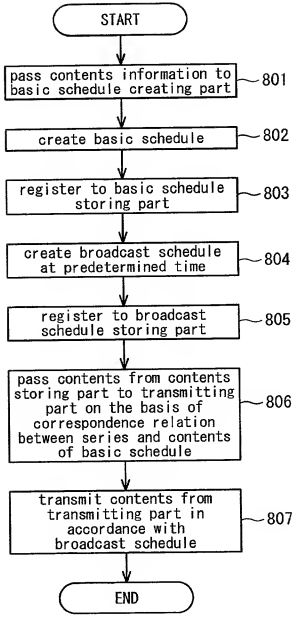

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FIG. 9

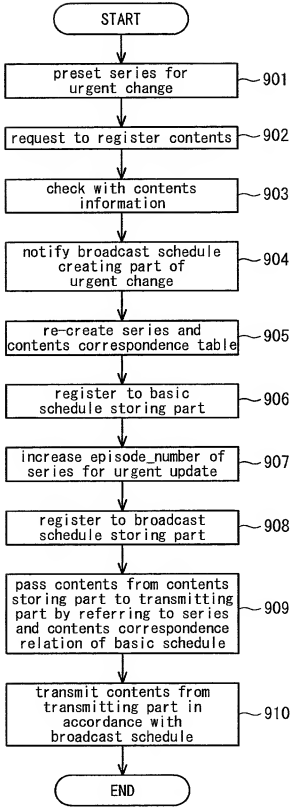

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FIG. 10

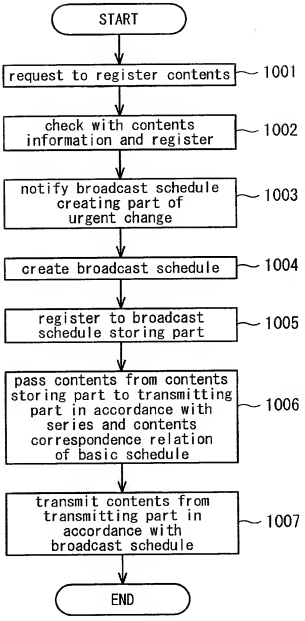

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FIG. 11

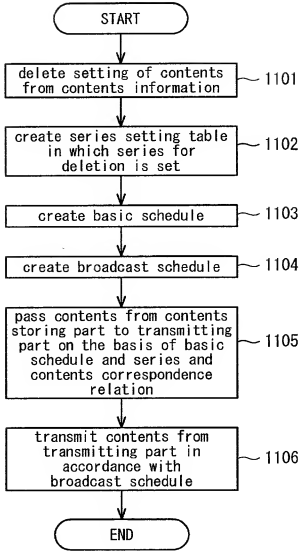

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FIG. 12

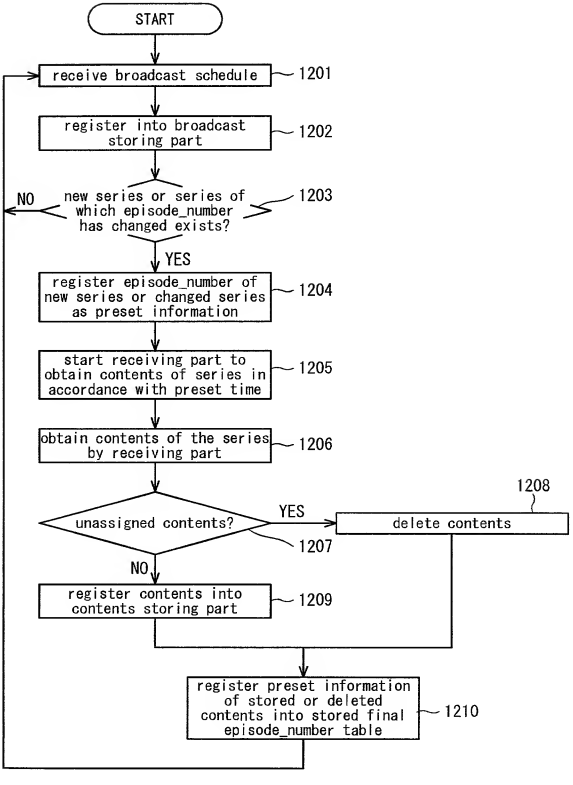

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FIG. 13

series setting table

series ID	attributes			
	billing	update frequency	maximum size(MB)	area
100	series for force start			all the country
	no	force start	2000	
1	no	once a day	2000	all the country
2	Gold	once a day	4000	Hokkaido
3	Silver	once a week	2000	Tokai
4	Bronze	once a week	2000	Kyushu
5	Silver	once a day	4000	Kanto
⋮	⋮	⋮	⋮	⋮
19	Gold	once a day	1000	Hokkaido
20 ⋮	⋮	⋮	⋮	⋮

preset portion

standby portion

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FIG. 14

broadcast schedule (3/12/2001)

broadcast time	series_ID	attributes			episode_ number
		billing	actual size(MB)	area	
0:00~0:24	100	no	1500	all the country	5
0:24~0:48	1	no	1500	all the country	4
0:48~1:48	2	Gold	4000	Hokkaido	4
1:48~2:03	19	Gold	1000	Hokkaido	4
2:03~2:27	3	Silver	1500	Tokai	4
2:27~2:42	4	Bronze	1000	Kyushu	2
2:42~3:12	5	Silver	2000	Kanto	4
3:12~3:36	100	no	1500	all the country	6
⋮	⋮	⋮	⋮	⋮	⋮
21:57~22:21	100	no	1500	all the country	12
22:21~22:45	1	no	1500	all the country	4
22:45~23:45	2	Gold	4000	Hokkaido	4
23:45~24:00	19	Gold	1000	Hokkaido	4

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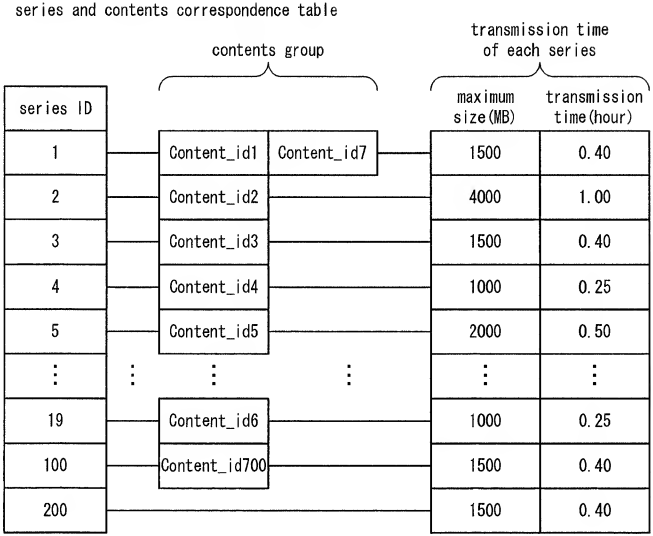
FIG. 15

series setting table in which series for urgent change is set

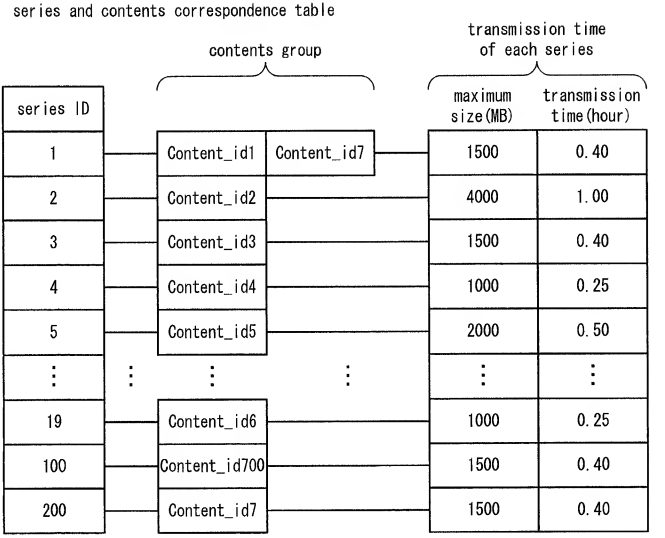
	series ID	attributes			
		billing	update frequency	maximum size(MB)	area
preset portion	100	series for force start			all the country
		no	force start	2000	
	200	no	urgent change	2000	all the country
	1	no	once a day	2000	all the country
	2	Gold	once a day	4000	Hokkaido
	3	Silver	once a week	2000	Tokai
	4	Bronze	once a week	2000	Kyushu
	5	Silver	once a day	4000	Kanto
	⋮	⋮	⋮	⋮	⋮
standby portion	19	Gold	once a day	1000	Hokkaido
	20 ⋮	⋮	⋮	⋮	⋮

FIG. 16


series and contents correspondence table
contents group
transmission time of each series
series ID
maximum size(MB)
transmission time(hour)
1
Content_id1
Content_id7
1500
0.40
2
Content_id2
4000
1.00
3
Content_id3
1500
0.40
4
Content_id4
1000
0.25
5
Content_id5
2000
0.50
19
Content_id6
1000
0.25
100
Content_id700
1500
0.40
200
1500
0.40

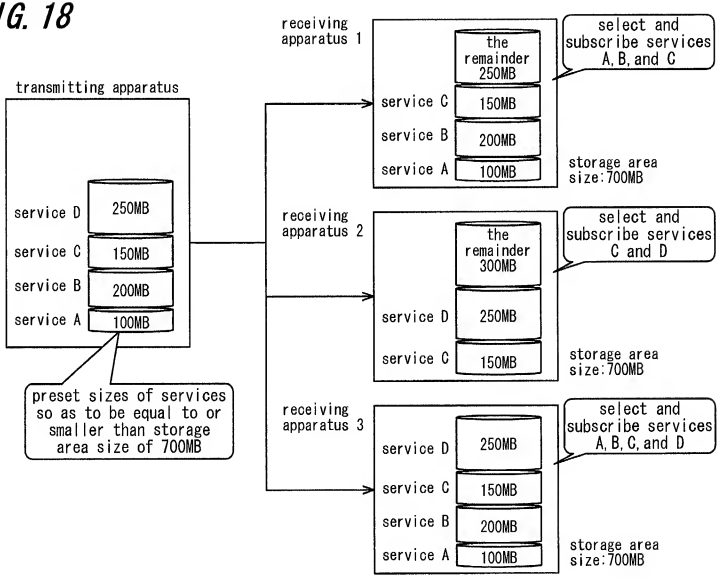
2087E0"8T986007

FIG. 17



2081E0 81986001

FIG. 18



1009619-031802

FIG. 19

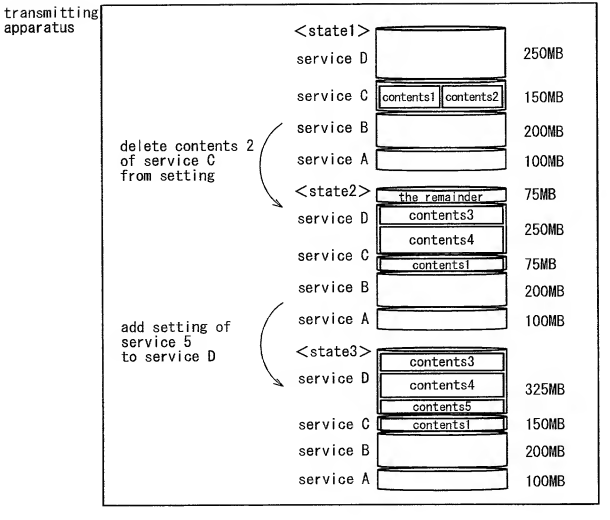


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FIG. 20

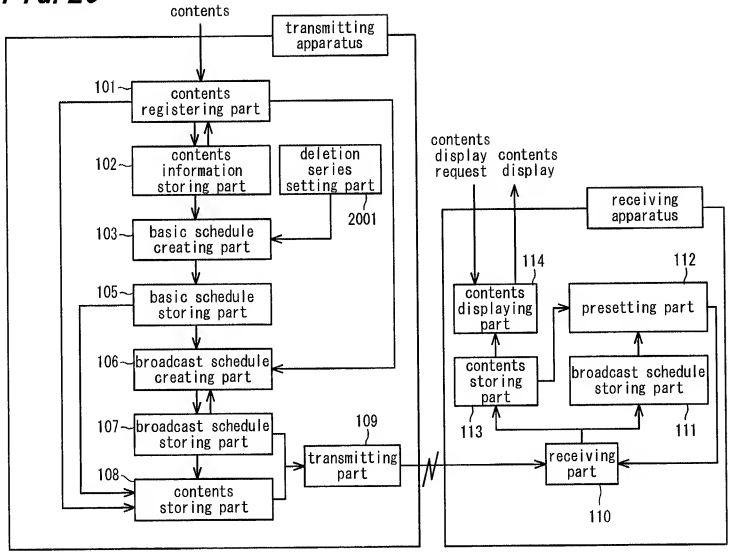

FIG. 21

series setting table in which series for deletion is set

series ID	attributes			
	billing	update frequency	maximum size(MB)	area
100	series for force start			all the country
	no	force start	2000	
201	no	deletion	2000	all the country
1	no	once a day	2000	all the country
2	Gold	once a day	4000	Hokkaido
3	Silver	once a week	2000	Tokai
4	Bronze	once a week	2000	Kyushu
5	Silver	once a day	4000	Kanto
⋮	⋮	⋮	⋮	⋮
19	Gold	once a day	1000	Hokkaido
20	⋮	⋮	⋮	⋮
⋮				

preset portion

standby portion

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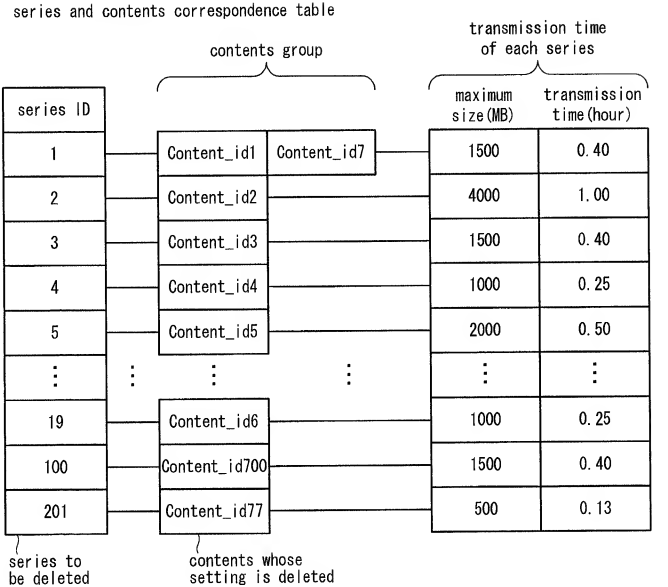
FIG. 22 contents information

Content_ID	contents attributes				deletion
	billing	update frequency	size(MB)	area	
1	no	once a day	500	all the country	
2	Gold	once a day	4000	Hokkaido	
3	Silver	once a week	1500	Tokai	
4	Bronze	once a week	1000	Kyushu	
5	Silver	once a day	2000	Kanto	
6	Gold	once a day	1000	Hokkaido	
7	no	once a day	1000	all the country	
77	Gold	once a day	1000	all the country	○
700	no	force start	1000	all the country	

FIG. 23


series and contents correspondence table
contents group
transmission time of each series
series ID
maximum size(MB)
transmission time(hour)
1
Content_id1
Content_id7
1500
0.40
2
Content_id2
4000
1.00
3
Content_id3
1500
0.40
4
Content_id4
1000
0.25
5
Content_id5
2000
0.50
19
Content_id6
1000
0.25
100
Content_id700
1500
0.40
201
Content_id77
500
0.13
series to be deleted
contents whose setting is deleted

2087E0 ST986001

FIG. 24

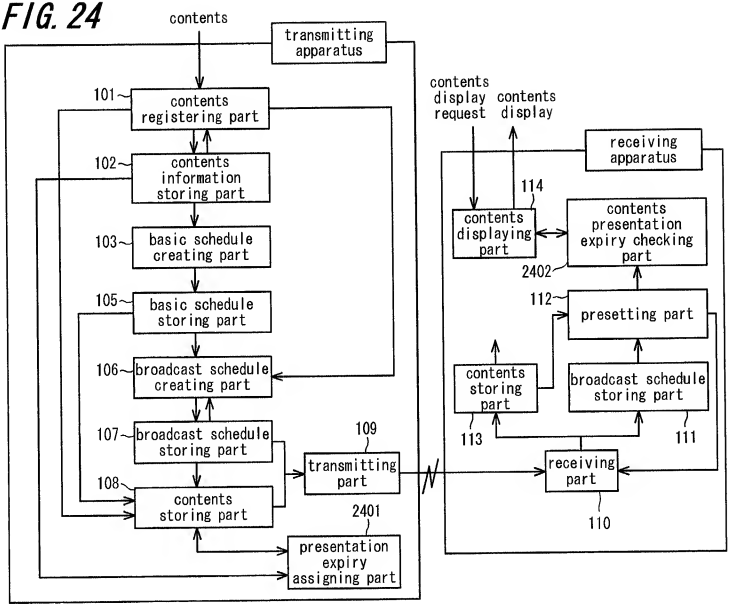


FIG. 25

contents information

Content_ID	contents attributes					
	billing	update frequency	size(MB)	area	start date	end date
1	no	once a day	500	all the country	2001/10/01	2002/09/30
2	Gold	once a day	4000	Hokkaido	2001/07/01	2002/03/31
3	Silver	once a week	1500	Tokai	2001/07/01	2002/09/30
4	Bronze	once a week	1000	Kyushu	2001/10/01	2002/03/31
5	Silver	once a day	2000	Kanto	2001/04/01	2002/03/31
6	Gold	once a day	1000	Hokkaido	2001/07/01	2002/09/30
7	no	once a day	1000	all the country	2001/10/01	2002/09/30

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FIG. 26

contents presentation expiry extension interval table

contents presentation expiry extension interval	1 month

FIG. 27

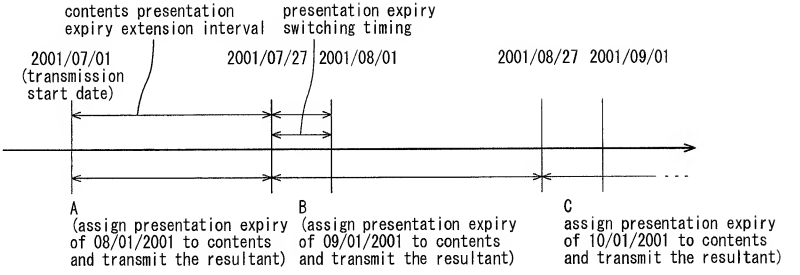

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FIG. 28

correspondence table of presentation expiry assigned to contents of Content_id2 and assignment period

presentation expiry to be assigned	assignment period
2001/08/01	2001/07/01～2001/07/26
2001/09/01	2001/07/27～2001/08/26
2001/10/01	2001/08/26～2001/09/25
...	...

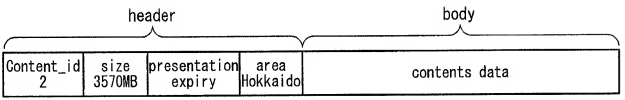
FIG. 29

presentation expiry switching timing table

presentation expiry switching timing	5 days before expiry

2087E0"8T986007

FIG. 30



10098618.031802

FIG. 31

contents management table

Content_id	size(MB)	storage destination	presentation expiry
1	1245	0x8900	2001/08/01
2	3570	0x763A	2001/08/01
3	980	0X12F7	2001/08/01
...	...	...	...

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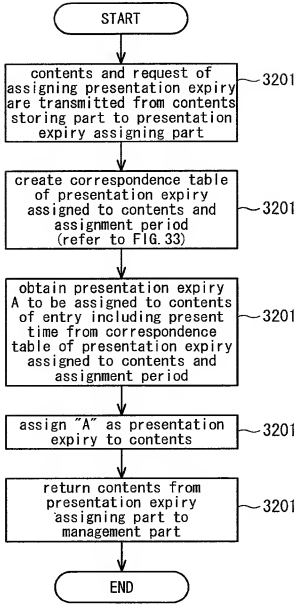
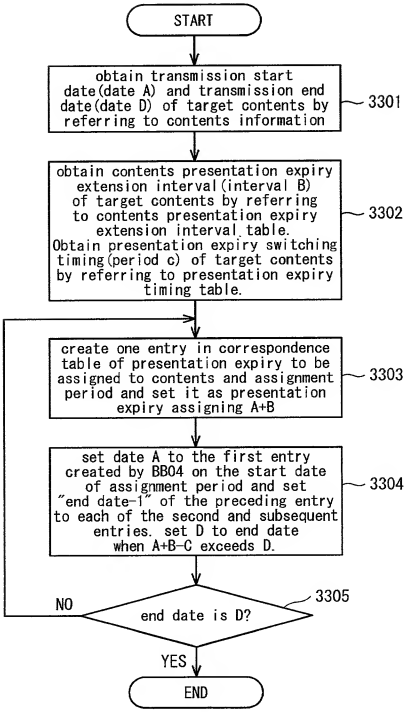
FIG. 32



1009818-031802

FIG. 33



1009618.031802

FIG. 34

Table of policy of setting series for force start

policy of setting series for force start	every 2.8 hours

FIG. 35

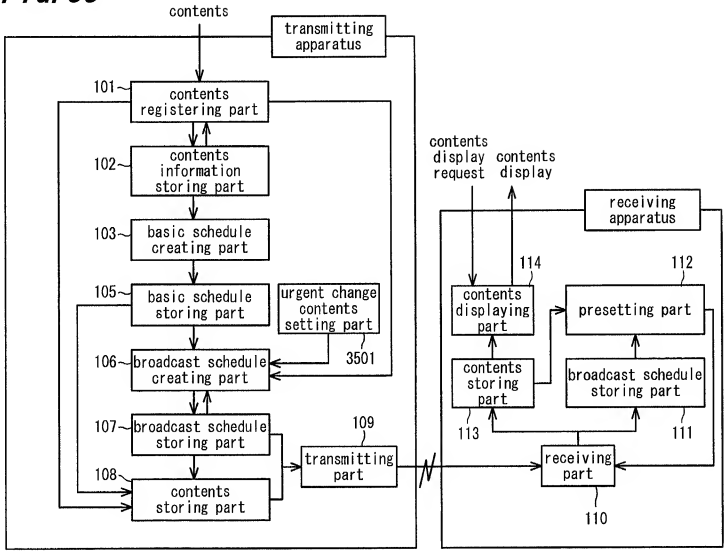

contents
transmitting apparatus
101
contents registering part
102
contents information storing part
103
basic schedule creating part
105
basic schedule storing part
urgent change contents setting part
3501
106
broadcast schedule creating part
107
broadcast schedule storing part
109
transmitting part
108
contents storing part
contents display request
contents display
receiving apparatus
114
contents displaying part
112
presetting part
contents storing part
broadcast schedule storing part
113
111
receiving part
110

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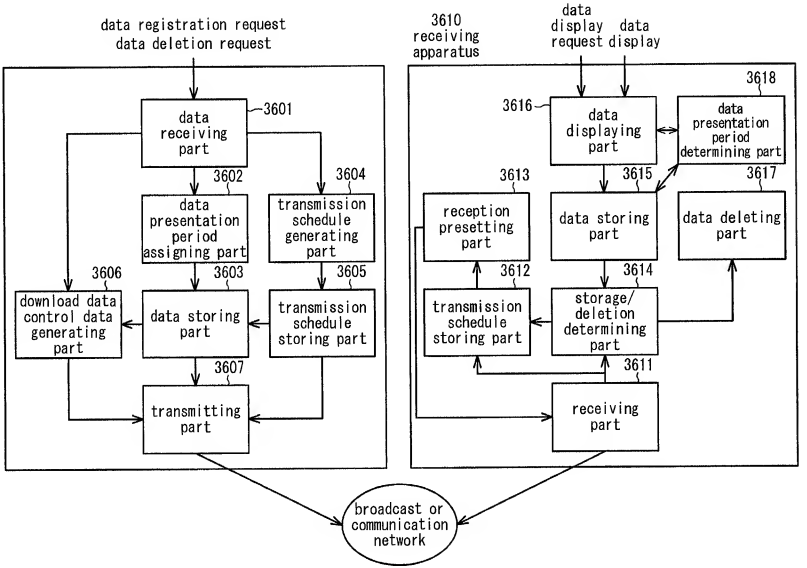
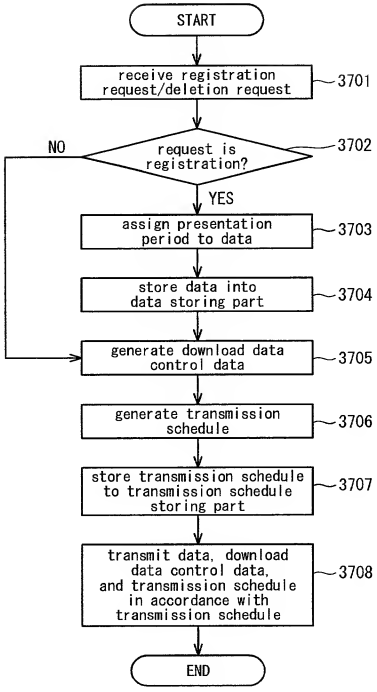
FIG. 36



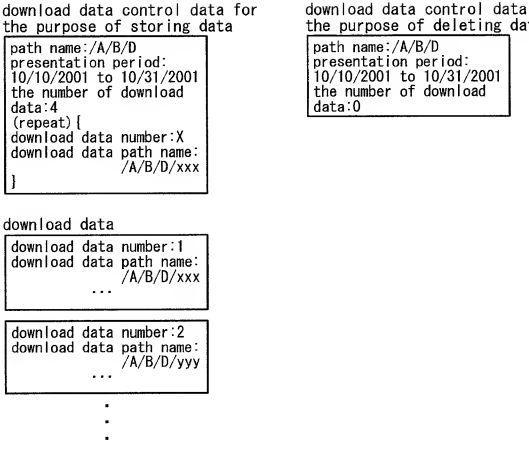
1009819.031802

FIG. 37



10098618.031802

FIG. 38



1009618-031802

FIG. 39

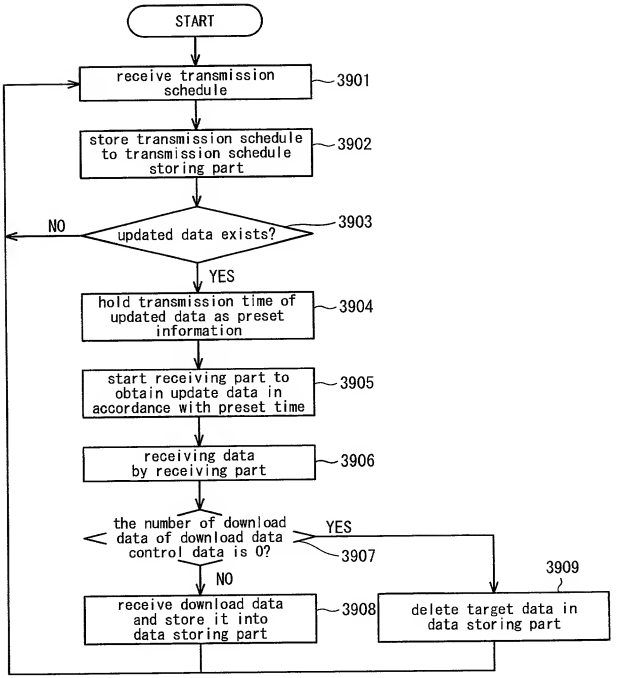


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FIG. 40

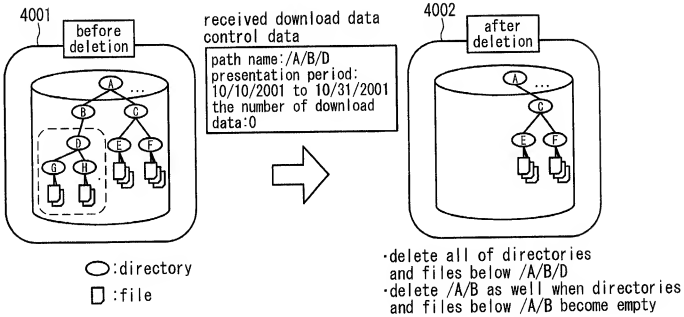
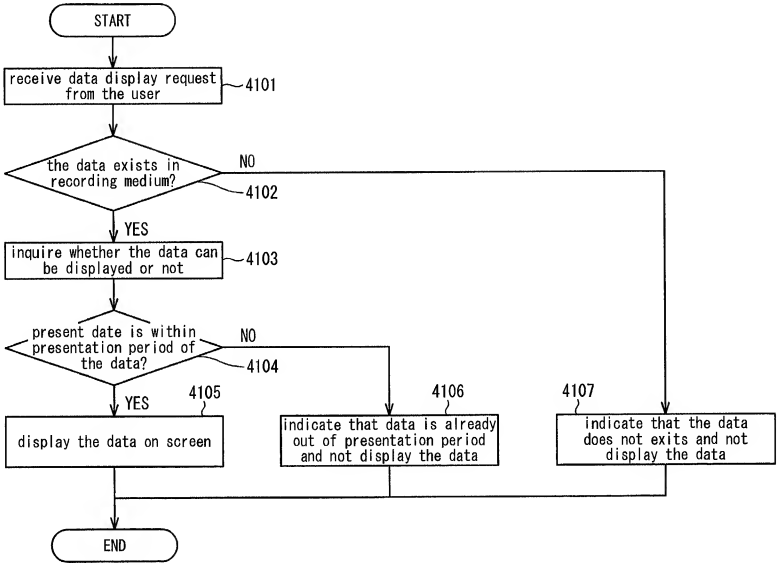


FIG. 41


START
receive data display request from the user
4101
the data exists in recording medium?
NO
4102
YES
inquire whether the data can be displayed or not
4103
present date is within presentation period of the data?
NO
4104
YES
4105
display the data on screen
4106
indicate that data is already out of presentation period and not display the data
4107
indicate that the data does not exits and not display the data
END

10096618-031802

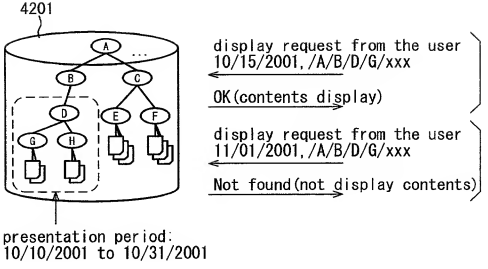



FIG. 42